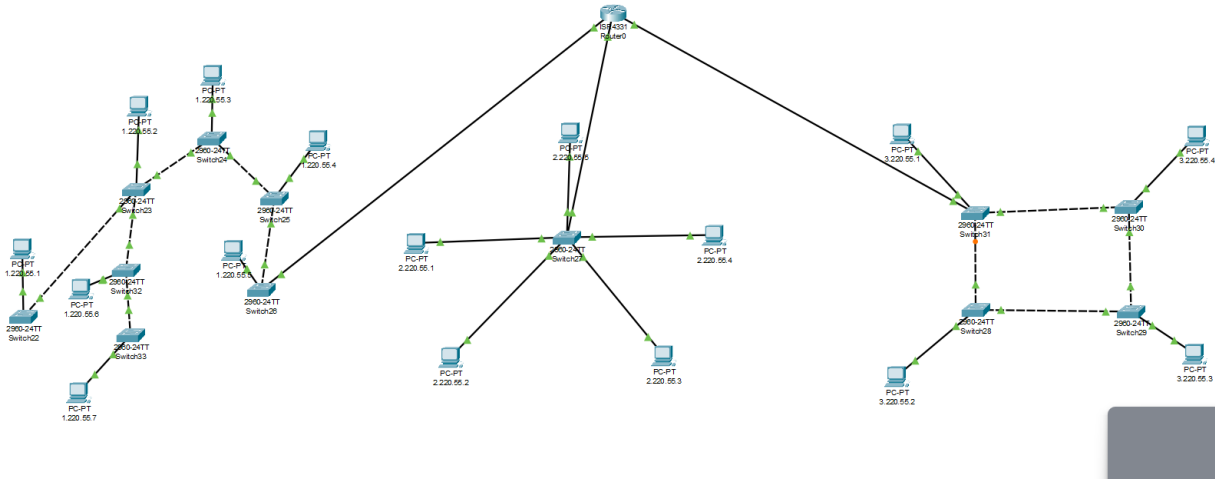


ASSIGNMENT

Create 3 LAN networks connected via a single Router (CPT). Choose appropriate router, connection and configure it. Each LAN network is configured via Tree, Star and Ring topologies respectively.



LAN1-IP Addresses – 1.220.55.1-1.220.55.7

LAN2-IP Addresses – 2.220.55.1- 2.220.55.5

LAN3 -IP Addresses –3.220.55.1 - 3.220.55.4

ROUTER CONFIGURATION:

GigabitEthernet0/0/0->Connected to LAN3(RING TOPOLOGY)

GigabitEthernet0/0/1->Connected to LAN1(TREE TOPOLOGY)

GigabitEthernet0/0/2->Connected to LAN2(STAR TOPOLOGY)

LAN1 ROUTER CONFIGURATION:

GigabitEthernet0/0/1	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input type="radio"/> 1000 Mbps <input type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	00E0.A3E0.BB02
<div>IP Configuration</div> <div> <div>IPv4 Address</div> <div>1.220.55.10</div> </div> <div> <div>Subnet Mask</div> <div>255.0.0.0</div> </div>	
Tx Ring Limit	10



LAN2 ROUTER CONFIGURATION:

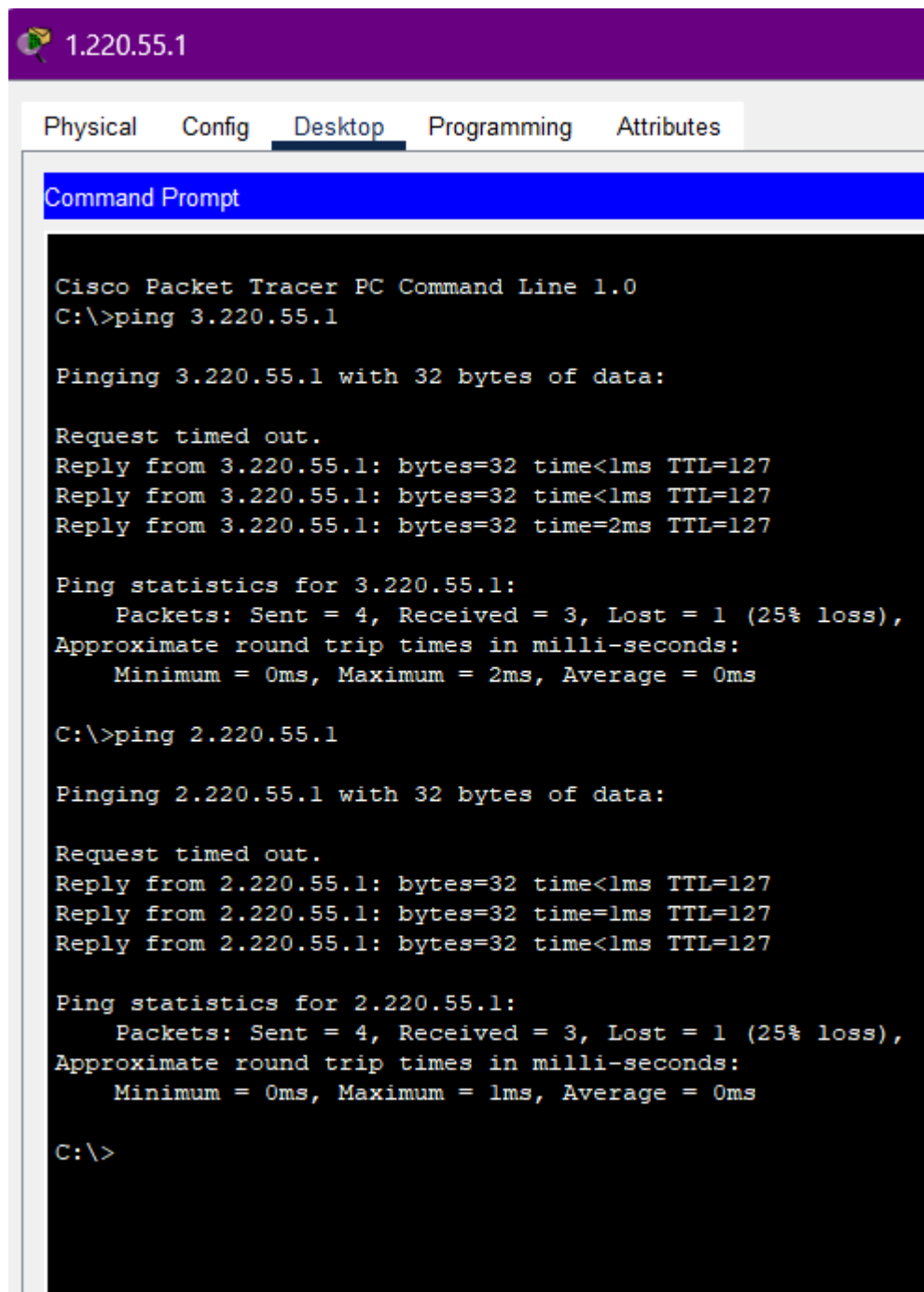
GigabitEthernet0/0/2	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="radio"/> 1000 Mbps <input type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	00E0.A3E0.BB03
IP Configuration	
IPv4 Address	2.220.55.10
Subnet Mask	255.0.0.0
Tx Ring Limit	10

LAN3 ROUTER CONFIGURATION:

GigabitEthernet0/0/0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="radio"/> 1000 Mbps <input type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	00E0.A3E0.BB01
IP Configuration	
IPv4 Address	3.220.55.10
Subnet Mask	255.0.0.0
Tx Ring Limit	10

RESULT:

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	1.220...	2.220.55.1	ICMP		0.000	N	0	(edit)	(delete)



```

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 3.220.55.1

Pinging 3.220.55.1 with 32 bytes of data:

Request timed out.
Reply from 3.220.55.1: bytes=32 time<1ms TTL=127
Reply from 3.220.55.1: bytes=32 time<1ms TTL=127
Reply from 3.220.55.1: bytes=32 time=2ms TTL=127

Ping statistics for 3.220.55.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>ping 2.220.55.1

Pinging 2.220.55.1 with 32 bytes of data:

Request timed out.
Reply from 2.220.55.1: bytes=32 time<1ms TTL=127
Reply from 2.220.55.1: bytes=32 time=1ms TTL=127
Reply from 2.220.55.1: bytes=32 time<1ms TTL=127

Ping statistics for 2.220.55.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>

```

=>Here all pc's has been named as their Ip address.

=>The IP address given to Router is also gateway address to all pc 's in the LAN.

